	Page 920		Page 922
1	BY MR. ANDERSON:	1	DEPONENT'S CHANGES OR CORRECTIONS
2	Q. So you have made that determination	2	Note: If you are adding to your testimony, print the
3	with respect to Unocal 5226?	3	exact words you want to add. If you are deleting from
4	A. Based on my definition, what I just	4	your testimony, print the exact words you want to
5	said, that's what I believe to be true.	5	delete. Specify with "Add" or "Delete" and sign this
6		6	form.
	MR. MILLER: Are you done with your list?	7	DEPOSITION OF: DAVID P. BOLIN, Volume 4
7	How long is your list? How many pages?	. /	CASE: MTBE MDL (OCWD)
8	MR. ANDERSON: I'm really close.		· · · · · · · · · · · · · · · · · · ·
9	MR. MILLER: You keep promising that. But	9	DATE OF DEPOSITION: AUGUST 20, 2008
10	it's after 5:00.	10 11	PAGE LINE CHANGE/ADD/DELETE
11	MR. ANDERSON: Just be patient.		
12	Am I done?	12	
1.3	MR. KATZ: Yes.	13	
14	MR. ANDERSON: I'm done for the day.	14	
15	MR. MILLER: Thank you.	15	
16	MR. ANDERSON: So be back at 8:00.	16	
17	MR. MILLER: Perhaps not.	17	
18	MR. ANDERSON: Off the record.	18	
19	THE VIDEOGRAPHER: This is the end of tape	19	
20	two of two and concludes today's deposition of David	20	- · · · · · · · · · · · · · · · · · · ·
21	Bolin. At 5:09 p.m. we are off the record.	21	
22	(The deposition was concluded on this day at	22	
23	5:09 p.m.)	23	
24	000	24	DEPONENT'S SIGNATURE
25		2.5	DATE
	Page 921		Page 923
1		1	REPORTER'S CERTIFICATE
1	Please be advised I have read the foregoing		
1 2	demonsition, and I state there are		REI ORIEKS CERTII ICATE
2	deposition, and I state there are:	2	
3	(Check one)NO CORRECTIONS	2	I certify that the witness in the foregoing
3 4		2 .3 4	I certify that the witness in the foregoing deposition.
3 4 5	(Check one)NO CORRECTIONS	2 .3 4 5	I certify that the witness in the foregoing deposition. DAVID P. BOLIN
3 4 5 6	(Check one)NO CORRECTIONS	2 .3 4	I certify that the witness in the foregoing deposition. DAVID P. BOLIN was by me duly sworn to testify in the within-entitled
3 4 5 6 7	(Check one)NO CORRECTIONSCORRECTIONS PER ATTACHED	2 .3 4 5	I certify that the witness in the foregoing deposition. DAVID P. BOLIN was by me duly sworn to testify in the within-entitled cause; that said deposition was taken at the time and
3 4 5 6 7 8	(Check one)NO CORRECTIONS	2 .3 4 5	I certify that the witness in the foregoing deposition. DAVID P. BOLIN was by me duly sworn to testify in the within-entitled cause; that said deposition was taken at the time and place therein named; pages 804 through 923 of the
3 4 5 6 7 8 9	(Check one)NO CORRECTIONSCORRECTIONS PER ATTACHED	2 3 4 5 6 7 8 9	I certify that the witness in the foregoing deposition. DAVID P. BOLIN was by me duly sworn to testify in the within-entitled cause; that said deposition was taken at the time and place therein named; pages 804 through 923 of the testimony of said witness were reported by me, a duly
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3 4 5 6 7 8 9 10	(Check one)NO CORRECTIONSCORRECTIONS PER ATTACHED	2 3 4 5 6 7 8 9 10	I certify that the witness in the foregoing deposition. DAVID P. BOLIN was by me duly sworn to testify in the within-entitled cause; that said deposition was taken at the time and place therein named; pages 804 through 923 of the testimony of said witness were reported by me, a duly Certified Shorthand Reporter of the State of California authorized to administer oaths and affirmations, and said
3 4 5 6 7 8 9 10 11	(Check one)NO CORRECTIONSCORRECTIONS PER ATTACHED	2 3 4 5 6 7 8 9 10 11	I certify that the witness in the foregoing deposition. DAVID P. BOLIN was by me duly sworn to testify in the within-entitled cause; that said deposition was taken at the time and place therein named; pages 804 through 923 of the testimony of said witness were reported by me, a duly Certified Shorthand Reporter of the State of California authorized to administer oaths and affirmations, and said testimony was thereafter transcribed into typewriting.
3 4 5 6 7 8 9 10 11 12 13	(Check one)NO CORRECTIONSCORRECTIONS PER ATTACHED	2 3 4 5 6 7 8 9 10 11 12	I certify that the witness in the foregoing deposition. DAVID P. BOLIN was by me duly sworn to testify in the within-entitled cause; that said deposition was taken at the time and place therein named; pages 804 through 923 of the testimony of said witness were reported by me, a duly Certified Shorthand Reporter of the State of California authorized to administer oaths and affirmations, and said testimony was thereafter transcribed into typewriting. I further certify that I am not of counsel or
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31 (Pages 920 to 923)

Case 1:00-cv-01898-VSB-VF Document 3315-8 Filed 03/15/11 Page 2 of 25

Confidential - Per 2004 MDL 1358 Order

Page 924

UNITED STATES DISTRICT COURT SOUTHERN DISTRICT OF NEW YORK

IN RE:

Methyl Tertiary Butyl: Master File No. 1:00-1898

Ether ("MTBE") : MDL NO. 1358 (SAS)

Products Liability

: M21-88

Litigation

This Document Relates to: Orange County Water District v. Unocal Corporation, et al., S.D.N.Y. No. 04 Civ. 4968 (SAS)

> CONFIDENTIAL (Per 2004 MDL 1358 Order)

> > August 21, 2008

Videotaped Deposition of DAVID P. BOLIN, Volume 5, OCWD'S 30(b)(6) DESIGNEE, held in the law offices of Latham & Watkins, 650 Towne Center Drive, Suite 2000, Costa Mesa, beginning at 9:02 a.m., before Sandra Bunch VanderPol, RPR, RMR, CRR, CSR #3032.

> GOLKOW TECHNOLOGIES, INC. 877.370.3377 ph 917.591.5672 fax deps@golkow.com

	Page 1113		Page 1115	
1	BY MR. CORRELL:	1	Q. And HB-1. There's three wells listed	110 40000
2	Q. As we can see by your notes in	l	under the topic of, "Groundwater Conduits are Nearby,	36.0
3	Exhibit 60, remediation or investigation can include		paren, potential migration paths from shallow	200
4	the installation of off-site monitoring wells by the		saturated zones to deeper saturated zones." Do you	
5	responsible party, correct?		see that?	800.00
6	•	6		0.00
7	A. I believe that's correct, as you	7	A. Right. I see where you are looking.	200
	state it.		Q. And these are listed as potential	3
8	Q. And remediation, if it's designed to		migration paths. When will the District know whether	2000
9	do so on site, can capture off-site contamination,		or not these are actual migration paths?	
10	correct?	10	A. I don't know when we will be able to	1
11	A. Depending on the remedial design and		make that determination. There are basically three	8
12	the size of the system, it is possible to capture		mechanisms by which the contamination from the	AC 1600
13	some off-site contamination.		surface can get into a drinking water well at depth,	
14	Q. And so just because contamination has		whether it flows along the surface and gets into the	2
15	left the site doesn't necessarily mean it's left the		well itself, whether it migrates down through the	24
16	reach of the cleanup, correct?	16	geology and then flows to within the capture zone of	3000
17	A. It is true that just because it's		that particular well within that particular interval,	100
18	left the site, it does not mean it has escaped	18	or whether it flows to some other potential conduit,	#C#7#
19	potential cleanup. But just because there is ongoing	19	such as I have indicated here, these potential	19.00
20	cleanup doesn't mean it is being captured by that	20	conduits, and then get into a down into a lower,	
21	cleanup.		zone and then is captured by by a producing well.	
22	Q. You would have to do a site-by-site	22	I don't know when we will be able to	X20-53.23.2
23	analysis to tell?	23	identify. It's a very difficult thing to do. I	1
24	A. Well, in this case, yes, you would.		don't know when we are going to be able to identify	1
25	Q. If you go to page 2, sir, of		which conduit and whether a conduit was the cause of	3
				15
	Page 1114	İ	Page 1116	1000000
1	Page 1114	_	Page 1116	1000 CO 1000 CO 1000 CO
1	Exhibit 60. Towards the bottom of the page you list		migration of the contamination from the surface into	STATE OF A COMPANY OF A
2	Exhibit 60. Towards the bottom of the page you list two domestic wells. By "domestic wells," do you mean	2	migration of the contamination from the surface into a greater depth.	STATE OF THE PARTY
2	Exhibit 60. Towards the bottom of the page you list two domestic wells. By "domestic wells," do you mean private drinking wells?	<u>2</u> <u>3</u>	migration of the contamination from the surface into a greater depth. Q. Or whether it has, in fact, migrated,	STATE OF A CONTROL OF THE ARTER
2 3 4	Exhibit 60. Towards the bottom of the page you list two domestic wells. By "domestic wells," do you mean private drinking wells? A. I believe that's what domestic wells	2 3 4	migration of the contamination from the surface into a greater depth. Or whether it has, in fact, migrated, correct?	TO SECURE A CONTRACTOR OF THE PROPERTY OF
2 3 4 5	Exhibit 60. Towards the bottom of the page you list two domestic wells. By "domestic wells," do you mean private drinking wells? A. I believe that's what domestic wells are. They are used for a variety of purposes. It	2 3 4 5	migration of the contamination from the surface into a greater depth. Q. Or whether it has, in fact, migrated, correct? A. Well, given that we have detections	STORT OF A COUNTY OF A PARK A SECOND AND A SECOND
2 3 4 5 6	Exhibit 60. Towards the bottom of the page you list two domestic wells. By "domestic wells," do you mean private drinking wells? A. I believe that's what domestic wells are. They are used for a variety of purposes. It could be farm, livestock, something like that. But	2 3 4 5 6	migration of the contamination from the surface into a greater depth. Q. Or whether it has, in fact, migrated, correct? A. Well, given that we have detections in production wells, we know it's migrated from	のかがらの ないとうじょうかい みゃかん 大きのないないできる 雑誌記述のない
2 3 4 5 6 7	Exhibit 60. Towards the bottom of the page you list two domestic wells. By "domestic wells," do you mean private drinking wells? A. I believe that's what domestic wells are. They are used for a variety of purposes. It could be farm, livestock, something like that. But it's a privately-owned well.	2 3 4 5 6 7	migration of the contamination from the surface into a greater depth. Q. Or whether it has, in fact, migrated, correct? A. Well, given that we have detections in production wells, we know it's migrated from somewhere. We can say that categorically. That if	このできる ちょうじょうかい カードス みかられるを見られる場合のはないからかっちゃく
2 3 4 5 6 7 8	Exhibit 60. Towards the bottom of the page you list two domestic wells. By "domestic wells," do you mean private drinking wells? A. I believe that's what domestic wells are. They are used for a variety of purposes. It could be farm, livestock, something like that. But it's a privately-owned well. Q. And you say, "Potential migration	2 3 4 5 6 7 8	migration of the contamination from the surface into a greater depth. O. Or whether it has, in fact, migrated, correct? A. Well, given that we have detections in production wells, we know it's migrated from somewhere. We can say that categorically. That if there's a detection in a well of a compound that	これのできる。 かんこうじょうしゅう しょうかん ちょうかんかんかん かいない はないない いっぱい ないくしゅうかん
2 3 4 5 6 7 8 9	Exhibit 60. Towards the bottom of the page you list two domestic wells. By "domestic wells," do you mean private drinking wells? A. I believe that's what domestic wells are. They are used for a variety of purposes. It could be farm, livestock, something like that. But it's a privately-owned well. Q. And you say, "Potential migration paths from shallow saturated zones to deeper	2 3 4 5 6 7 8	migration of the contamination from the surface into a greater depth. Q. Or whether it has, in fact, migrated, correct? A. Well, given that we have detections in production wells, we know it's migrated from somewhere. We can say that categorically. That if there's a detection in a well of a compound that originated at the surface, then it had to have	おおから かん こうじゅうしょ からく ちゅうかんしゅぎょう ごを記録されている くちょうかんかん
2 3 4 5 6 7 8 9	Exhibit 60. Towards the bottom of the page you list two domestic wells. By "domestic wells," do you mean private drinking wells? A. I believe that's what domestic wells are. They are used for a variety of purposes. It could be farm, livestock, something like that. But it's a privately-owned well. Q. And you say, "Potential migration paths from shallow saturated zones to deeper saturated zones." Do you see that?	2 3 4 5 6 7 8 9	migration of the contamination from the surface into a greater depth. Q. Or whether it has, in fact, migrated, correct? A. Well, given that we have detections in production wells, we know it's migrated from somewhere. We can say that categorically. That if there's a detection in a well of a compound that originated at the surface, then it had to have migrated.	おいがい ウェージ アー・カー・カー・カー・ストラー かんかん おおから はない ないかん ないしょう ないしょう ないしょう かんかん かいしょう はんかい かんしょう かんしょう かんしょう かんしょう かんしょう かんしょう かんかん かんしょう かんかん かんしょう かんかん かんしょう かんかん かんしょう かんかん かんしょう かんしょう しょうしょう ょう しょうしょうしょう しょうしょうしょうしょう しょうしょうしょうしょう しょうしょうしょう しょうしょうしょう しょうしょうしょう しょうしょうしょうしょう しょうしょうしょう しょうしょうしょう しょうしょうしょう しょうしょうしょう しょうしょうしょう しょうしょう しょうしょく しょく しょうしょく しょく しょく しょく しょく しょく しょく しょく しょく しょく
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49 (Pages 1113 to 1116)

Page 1129 60-foot elevation contour at the mean sea level. And the contouring, you can see, indicates a depression 3 in that direction. So eventually the water will flow 3 BY MR. CORRELL: to the north towards those wells. 4 Q. BY MR. CORRELL: 5 right? 6 6 Q. If it goes to the deeper zone? 7 7 A. Well, I believe it goes to the deeper Q. 8 zone because there is a downgradient. We know that 8 well? 9 the shallow water feeds, replenishes the deeper 9 10 water. So eventually it gets down there into the 10 11 principal aquifer and flows into the drinking water 11 then? Not that one. 12 wells. 12

- 13 Q. What's the deepest level that MTBE 14 has been detected underneath the Unocal 5123 site?
- 15 It would be in the deepest well. I 16 don't have the -- oh, I believe the deepest well in the -- let me make sure I'm looking at the right 18 site -- Unocal 5123 is in the C zone, identified as 19 the C zone, which is screened from 40 to 50 feet.
- 20 Q. And the drinking water table beneath 21 the site is what level?
- 22 A. I will call it a -- we call it the 23 principal aquifer. And the principal aquifer -- the 24 top of the principal aquifer is at about 187 feet 25 below ground surface.

the upper zone in the principal aquifer where other

- wells are screened at different zones.
 - It draws down when it has a pump,
 - When it has a pump, right.
 - So it's currently not a production
 - A. It's currently not producing.
- I'm sorry. What was your last question
- Q. I understand. What was my question?
- 13 (Record read as follows: QUESTION: Now,
- 14 from any time that a release was reported to present,
- has the District taken any action to attempt to
- 16 influence the remedial activities occurring at the
- 17 site?)
- THE WITNESS: The District hasn't taken
- 19 specific action on this particular site regarding
- 20 remediation of contaminants, known contaminants at
- the site.
- 22 BY MR. CORRELL:
- 23 Q. Why hasn't the District offered its
- expertise to help the Orange County Health Care
- 25 Agency or the responsible party take any additional

Page 1130

Page 1132

Page 1131

So in excess of 100 feet below the deepest detection of MTBE? 2

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- The principal aquifer begins at about 100 feet below the lowest well that's screened at this site.
- Now, during -- from any time that a release was reported to present, has the District taken any action to attempt to influence the remedial activities occurring at the site?
- 10 MR. MILLER: Objection, vague and 11 argumentative.
- 12 THE WITNESS: I'd like to add something to 13 my previous answer.
 - MR. CORRELL: Please do.
- 15 THE WITNESS: I'm sorry. I'm still thinking 16 about your previous question.
- 17 HB-1, which does not currently have a pump 18 in it, but it is a production well that is in this 19 general area identified as one of the focus wells, 20 but we haven't been able to test it because it's got
- 21 the -- I'm sorry, the pump, it's been pulled out of
- 22 the well, is what I meant to say.
- 23 It is screened -- I lost my place. It's
- 24 screened at 265. So it's not at the top of the
 - principal aquifer, but it does drawdown water from

- 1 action that the District may think necessary?
- A. I can't comment on why we haven't
- helped the responsible party, other than that might
- involve the fact that we're in litigation.
- But in terms of helping the Health Care
- Agency, we're not telling the Health Care Agency how
- to do their job here. We are looking at the impacts
- and the threats to drinking water wells in deciding
- 9 what Orange County Water District is going to have to 10 do.
- $\overline{11}$ To my knowledge, I don't believe that the
- Health Care Agency is able to conduct any remediation
- activities itself. It would actually have to defer
- to other agencies to implement that kind of activity.
- O. And do you know why the Orange County
- Water District, prior to the litigation, didn't
- provide any recommendations to the PRP at the site?
 - MR. MILLER: Objection, assumes facts not in
- 19 evidence. Argumentative.
- THE WITNESS: I don't know that it didn't
- one way or the other.
- 22 BY MR. CORRELL:
- 23 Q. Have you seen any document in the
- 24 District's file indicating that it did?
 - A. No. I have not seen a document.

53 (Pages 1129 to 1132)

18

Page 1133 Page 1135 1 O. And I take it that you, in reaching knowing the amount from any of these sites that --2 your opinions, reviewed the documents on this site in amount of contamination from any of these sites that 3 the District's file? have left the sites, correct? 4 A. Yes, I have seen all the District's 4 MR. MILLER: Objection, argumentative. 5 5 documents in their file. Vague. 6 6 And I apologize if I asked you this THE WITNESS: We don't have specific before. I can't remember if I did on this site or information. This is where our modeling and further analysis will -- will generate some conclusions along 8 the previous site. 8 But as of today, you cannot trace the 9 9 these lines. contamination in any production well to this site, 10 In the meantime, we have reason to believe 11 11 correct? that substantial releases at early dates, 12 A. I think you might have asked me that, understanding that MTBE is resistant to retardation, But if you didn't, I can't remember either. We it's resistant to degradation, it's a fairly stable 13 haven't determined that the specific detections 14 product that moves fairly freely with groundwater, identified in production wells were specifically from that there is a great likelihood that it has traveled 16 this site. 16 all the way into the production wells in which MTBE 17 In going back to Exhibit No. 2 for 17 has been detected. 0. 18 the stations listed in plume 9, other than the 18 BY MR. CORRELL: Huntington Beach ARCO, as you sit here today, you do 19 O. What do you base your opinion on that not know whether the Unocal 5123 contamination, if 20 MTBE is resistant to degradation? any, has commingled with the contamination from the 21 Scientific documents that I have 21 A. 22 22 other sites, if any? seen. 2.3 A. I think you asked me that question 23 Would you consider that an area of Q. 24 24 already. And I think I was talking about the your expertise? 25 Huntington Beach ARCO site to the south across the 25 No, I am not an expert in that area. Page 1134 Page 1136 1 street. Q. How much money has the District 2 And that's why I asked the follow-on expended to date related to the Unocal 5123 station? 3 question. When I asked that question initially, you We don't have any records that break said the Huntington Beach ARCO. out our expenses for individual sites, so I can't say 5 how much time and effort has been focused on this I am sorry. I misunderstood. A. 6 Q. So now I'm trying to put a bow on the site relative to another one. I can't quantify what 7 rest of them. 7 that expense would be. 8 8 A. Okay. Q. It was one of the sites that Komex 9 reviewed, correct? So let me ask it again. 9 O. 10 As you sit here today, do you have any 10 A. Yes. evidence that any contamination from Unocal 5123 has 11 And the -- the tab for the Komex O. commingled with the other sites listed in plume 9, 12 12 reports was approximately \$600,000? 13 other than the Huntington Beach ARCO? 13 A. It was more than that. But --14 A. I apologize. Thank you. 14 About 700,000? Q. 15 I don't have specific information, other 15 A. Yes. 16 than the fact that there's been a detection in 16 So if we divided that by the 40 17 drinking water wells, and that the source of that 17 sites, we would come to less than \$20,000? 18 detection is likely from one or more of these sites. 18 Calculate. Do the math. I don't 19 It might possibly have commingled at this point. It 19 know what -- how much time they spent on this site 20 might not have. We don't know. 20 relative to another one. 21 We do believe that it is still traveling. 21 If the size of the binder is any indication, 22 And that if it hasn't commingled already, it will 22 it looks like there is more information on this site 23 eventually. 23 than there was on other sites. But I didn't quantify 24 And when you say, "we believe it will 24 or begin to guess how much money or time they spent 25 eventually," you have reached that opinion not even 25 on this site.

Page 1137

1 O. Okay. What specific future actions 2 does the District plan in relation to Unocal 5123?

My answer to that question is going to be substantially the same as the same question regarding other sites. And that is that we have a list of activities that we know we're going to have to take. We don't -- we're going to have to take some of those activities. We just don't know which activities we're going to have to take yet.

10 Q. If you go back to Exhibit No. 63 from your binder, which was detections -- it's this one. 11

A. Does that look familiar? I believe

13 that's it.

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14 O. We are to the right page. Does do 15 you see the February 13, 2008 MTBE test?

A. Yes, I do.

17 Q. Of 0.01?

18 A. Yes, I do.

O. Is that significant? 19

A. It's certainly meaningful to me. It 20

21 indicates to me that MTBE has reoccurred in the well,

22 based on this report.

23 And if we look down in August 25th of Q.

24 1999, it has the same level of detection?

25 A. I see that.

the Orange County Health Care Agency, has determined

Page 1139

Page 1140

that remediation -- that MTBE has escaped the

remediation at the site?

A. I don't remember seeing a statement 5 from the Health Care Agency. You would only have to look at the data and draw a conclusion as to whether 6

the contamination outside the site boundary is within

the remedial capture zone or it is not. I do not 8

9 believe that it is. I believe it is outside the

10 remedial capture zone.

11 Q. What current remediation is operating 12 at the site, sir?

13 A. I can't be certain. The last

14 document that I reviewed from my deposition is dated

January 2008. And I believe that the remediation 15

16 system was discontinued, according to my notes,

17 discontinued and is not currently operating.

18 Q. Did that influence your opinion that

19 MTBE has escaped remediation?

20 That -- if you're asking me whether

21 the fact that the status of the current remediation

system has been discontinued influenced my opinion 22

23 that contamination escaped remediation, no, it did

24 not.

So whether remediation is active --

Page 1138

Was it significant then?

A. I believe it was -- had the same meaningfulness. It's a reoccurrence in that well.

Q. Okay. In your review of the regulatory files, did you see where any regulatory agency had concluded that MTBE escaped remediation from this site?

8 A. I can't recall a statement by the 9 regulatory agency saying that MTBE has escaped from 10 the site. Only that MTBE has been detected off site. 11 The site has never been closed. And that there is a 12 continuing ongoing effort -- apparently ongoing 13 effort at the site. But given that the -- it depends

14 on how you define escape again. It's outside the 15 site boundary. It's escaped the site.

16 If there's a remediation system that is

17 proposed to drawdown water and capture the water 18 that's contaminated -- that has escaped the site, then it hasn't escaped -- then it might not escape 20 the remedial capture. But, to my knowledge, no remedial design has been implemented, and there is no 22 plan for a remedial design to do that.

23 And I appreciate that. But I'm asking from your review of the regulatory files, have 24 25 you seen that another regulatory agency, for example,

never mind.

25

2 À. Well, I don't think the -- I don't 3 think it can be captured by an on-site remediation system now.

Q. Okav.

5 6 A. I think it's escaped. It's gone to

7 too far.

8 Q. Even though you don't know the amount 9 that has escaped?

10 A. That's correct.

And I probably asked you this

12 already, but it's sort of my last question on this

13 station.

11

14 What specific actions do you have planned

15 for this site in the future?

MR. MILLER: I believe that's been asked and 16 17 answered.

18 But go ahead.

19 THE WITNESS: I think you did ask me that.

20 And my answer is that we have a list of activities

that we're considering for this site -- all these

sites, but specifically we're talking about this

23 site, and my answer for this site is substantially.

24 the same as the other sites.

We don't know exactly which activities we're

55 (Pages 1137 to 1140)

	Page 1141		Page 1143
1	going to have to take involving investigation and	1	Please be advised I have read the foregoing
2	remediation, only some of those activities leading up	2	deposition, and I state there are:
3	to the investigation, remediation, which is continued	3	(Check one) NO CORRECTIONS
4	evaluation of the data that we already have, possibly,	4	CORRECTIONS PER ATTACHED
5	some mathematical modeling and fate and transport	. 5	
6	modeling, as well as retaining an expert to help us	6	
7	do those services.	7	
8	MR. CORRELL: I would now like to switch to	8	DAVID P. BOLIN
9	my last station. Let's go off the record for one	9	
10	second.	10	
11	(Exhibit No. 67 was marked.)	11	
12	THE VIDEOGRAPHER: It is 3:35 p.m. We are	12	
13	off the record.	13	
14	(Off the record.)	14	
15	THE VIDEOGRAPHER: It is 3:45 p.m. We are	15	
16	back on the record.	16	
17	MR. CORRELL: We have taken a break. The	17	· · · · · · · · · · · · · · · · · · ·
18	witness has stated that he is tired and that he would	18	
19	like to end the deposition at least for today.	19	
20	As of now I have one station left, but I	20	•
21	have no objection, since the witness is tired, to	21	
22	ending the deposition now.	22	
23	There's a dispute between the parties as to	23	
24	if Mr. Bolin will be brought back, and if so, for how	24	
25	long. But that dispute shouldn't impose on the	25	
	Page 1142		Page 1144
1		1	,
1 2	witness.	1 2	DEPONENT'S CHANGES OR CORRECTIONS
2	witness. Sir, we thank you for your time.		DEPONENT'S CHANGES OR CORRECTIONS Note: If you are adding to your testimony, print the
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56 (Pages 1141 to 1144)

Page 1145	
1 REPORTER'S CERTIFICATE	
2	
I certify that the witness in the foregoingdeposition.	
5 DAVID P. BOLIN	
6 was by me duly sworn to testify in the within-entitled	
7 cause; that said deposition was taken at the time and	
 place therein named; pages 925 through 1145 of the testimony of said witness were reported by me, a duly 	
10 Certified Shorthand Reporter of the State of California	
authorized to administer oaths and affirmations, and said	
 testimony was thereafter transcribed into typewriting. I further certify that I am not of counsel or 	
14 attorney for either or any of the parties to said	
15 deposition, nor in any way interested in the outcome of	
 the cause named in said deposition. IN WITNESS WHEREOF, I have hereunto set my hand this 	
18 2nd day of September, 2008.	
19	
2021 SANDRA BUNCH VANDER POL, RMR, CRR	
22 Certified Shorthand Reporter	
23 Certificate No. 3032	
24 25	
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57 (Page 1145)

Page 1146

UNITED STATES DISTRICT COURT SOUTHERN DISTRICT OF NEW YORK

IN RE:

Methyl Tertiary Butyl: Master File No. 1:00-1898

Ether ("MTBE") : MDL NO. 1358 (SAS)

Products Liability : M21-88

Litigation

This Document Relates to:
Orange County Water District
v. Unocal Corporation, et al.,
S.D.N.Y. No. 04 Civ. 4968 (SAS)

CONFIDENTIAL (Per 2004 MDL 1358 Order)

OCTOBER 20, 2008

Videotaped Deposition of DAVID P. BOLIN,
Volume 6, OCWD'S 30(b)(6) DESIGNEE, re Focus Plumes
2, 7 and 9, held in the law offices of Latham &
Watkins, 650 Town Center Drive, Suite 2000, Costa
Mesa, California, beginning at 9:08 a.m., before
Sandra Bunch VanderPol, RPR, RMR, CRR, CSR #3032.

GOLKOW TECHNOLOGIES, INC.
877.370.3377 ph|917.591.5672 fax
deps@golkow.com

7

Page 1163

more detail, there are more figures in the copy -- in 2 this exhibit that you gave me than I have in my copy.

- Okay. And the copy you're referring to is under what tab in your binder?
 - A. It's under Tab 1 in my binder.
- Okay. Okay. Well, maybe on a break we will go through and compare them to make sure that 8 it's exact.

If I were to want to go get a complete 10 copy of this Komex report, where would you direct me 11 to look? Would it be from your binder or some other location, to be certain that I had the complete copy?

13 This binder has been produced. You 14 have a complete copy. You could go to this binder and make another copy. 15

16 Just a quick glance, it looks like the figures have been duplicated. Maybe that's why there 17 18 are so many.

- 19 Q. Oh. You think there's repeats within 20 here?
- 21 A. Yes.

3

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9

22 Q. Okay. All right. We will figure it 23 out on a break.

24 Were you -- did you ever make any edits or 25 revision to this report?

Page 1165

- A. I can't recall sending copies of the reports to my -- to the district's counsel. I know that they have seen the report.
- 4 Q. Do you know whether or not anyone 5 from Mr. Miller's office has provided comments or 6 edits to the report?
 - No, I do not. A.
- 8 Was -- after receiving this report, O. was Komex charged with any sort of follow-up work 9 related to Mobil 18-JMY?
- 11 There was an additional scope of work 12 that we had prepared in anticipation of additional 13 work. That work was not completed.
- 14 Q. Specific to Mobil 18-JMY, what was

15 Komex charged with doing?

- 16 A. I'm reflecting on the scope of work.
- They were asked to review agency files, summarize the
- current status of knowledge about this particular
- $\overline{19}$ station, evaluate the occurrence of MTBE and TBA
- 20 historically and currently, and provide some general

 $\overline{21}$ hydrogeologic input about the site.

- 22 And when were they charged with doing Q. 23 that?
- 24 This was a scope of work that they 25 entered into in 2005.

Page 1164

Page 1166

- A. No. I have marked my copy, if that's what you're asking me.
- No, no, no.

4 I'm asking you, did you see sort of a 5 preliminary draft from Komex and then give them 6 feedback on things that you wanted to have revised or 7 changed within the report?

- Not that I recall. There were one or two reports where there was an error in the address 10 that we had corrected. But other than that, I don't -- I did not make any comments or direct any 12 changes to the contents of the report.
- 13 Q. Did you form any conclusions as to 14 the accuracy of the report after you received it?
- 15 A. I don't recall --

16 MR. AXLINE: Objection. I'm going to object 17 to that question. It calls for an opinion from the witness rather than his knowledge.

19 THE WITNESS: I don't recall seeing anything 20 that I thought was contradictory in nature. The general statements, I thought, were reasonably 22 accurate, as they were written.

- 23 BY MS. ROY:
- 24 Q. Did you provide a copy of the report 25 to your attorneys?

- 1 And that project was not completed?
- 2 There is still an outstanding budget. A. While Komex is not currently doing any work on this 3 site there, we have not closed the budget or closed 5 the contract.
- 6 Q. You mentioned that it's not 7 completed. Was it ever started with respect to Mobil 8 18-JMY?
- 9 A. I'm not sure I understand your 10 question.
- 11 Okay. I'm talking about follow-up 12 work, subsequent to this report. You've testified that Komex was charged with doing a variety of things 13 14 related to this station. And I'm wondering if any of 15 that work was actually begun by Komex.
 - Not additional work. The follow -if you're referring to follow-up work, no.
- 18 Was any other outside consultant 19 charged with doing anything related to Mobil 18-JMY 20 after you received this report?
- 21 No other outside consultant has 22 provided input on this station for us yet.
- 23 All right. After you received 24 this Komex report, other than the scope of work that you discussed with Komex, did OCWD do

16

17

Page 1171

- This is summary information that I 1 compiled, I put together for the deposition to answer questions.
 - Q. And what did you review in order to compile this summary?
 - Most of this information is compiled from the documents that are in the binder that you have before you and that I have before me.

9 They consist of quarterly monitoring 10 reports, communications between regulatory agencies and the RP's consultant. It includes a map and tables of data that are compiled. 12 13 One thing that is in this exhibit that is

14 not in this binder are tables of some well specification information tables that I had compiled 15 also. These are nearby wells -- or wells located 16 near Mobil JMY. They are not in the binder, but I 17

18 printed them out to help me identify them by wells. 19 And when you say you "printed them 20

out," where did you print them from? 21 A. From the District's database. It's called WRMS, W-R-M-S, database. 22

23 O. And the charts that you're 24 referencing now, the ones that you have printed from

WRMS, is that starting on page 192522?

Page 1173

Page 1174

- 1 Did anyone assist you in preparing O. 2. this chart?
- 3 A. Not this chart. I did have some 4 legal assistance in compiling some of the documents
- 5 through discovery. I did not acquire all these
- 6 documents myself. Some of them were acquired from --
- 7 I believe from Mobil, ExxonMobil, some from
- 8 regulatory agencies, and so on. But the first two
- 9 sheets is exclusively mine.
- 10 Q. All right. If you could turn to Tab 2 of your binder. I believe that's your map of plume 11 12

And this was previously marked as Exhibit 12 13 14 earlier in your deposition. But I think the copy you have in front you have is a lot better than the

photocopy that I have, so let me work with your copy. 16 17

Do you need one, Mike?

18 MR. AXLINE: Yes, if you have an extra.

MS. ROY: It's not that pretty, but....

20 So looking at Exhibit 12. Can you 21 tell me which wells on this map you've determined

have actually been contaminated with MTBE from Mobil

23 18-JMY?

19

24 A. I can tell you which wells are 25 contaminated with MTBE. I can't tell you that the

contamination in those wells specifically came from

JMY. We are still looking at that station, as we are the other stations on this map in proximity to those

wells, because they are all suspect sources for that

5 contamination.

6 Which are the ones that actually have Q. 7 MTBE in them?

8 Well, they are marked in yellow. I believe you have that on your map. Wells MCWD-5, 9 10 MCWD-3B, MCWD-7.

11 Q. And has OCWD done anything to 12 determine precisely whether the MTBE in those wells actually came from Mobil 18-JMY? 13

14 We are doing that now. We are evaluating these stations as other stations here, and 15 we are working to understand the hydrogeology locally

for JMY, as well as these other suspect source 17

18 locations, and regionally in this area to try and

quantify where the contamination is coming from. 19

20 Q. Okay. So what exactly are you doing 21 right now specific to Mobil 18-JMY?

22 We are watching the trends in

23 contamination in the quarterly monitoring for the various wells, and then we are determining -- trying 24

to understand what kind of mass might be in the

Page 1172

A. Yes.

Through the end of the document? Q.

3 A.

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O. All right. So referencing now the beginning of the document, the first two pages. How did you decide what pieces of information you wanted to include in these summary notes for yourself?

8 I was looking at the date, the 9 occurrence of MTBE and TBA at the station. I was 10 looking at which wells they were -- the compounds 11 were detected in. I was looking at the 12 concentrations that were detected. And I was looking 13 at whether the well's located on site or off site. 14 And was looking to help me determine or try and 15 qualify the trend for MTBE and TBA occurrence.

16 And why is the trend significant to 17 you?

18 Because we have contamination, MTBE 19 contamination, in production wells that are in proximity to this site. We know that this site and 20 other sites are suspect sites for the sources of that 22 contamination. So we wanted to try and understand 23 what the -- what the occurrence is or the

24 contamination association is with this particular 25 site.

8 (Pages 1171 to 1174)

Page 1175 Page 1177 ground, how far that mass might have moved, and what with? the timing on that mass might be in reaching the 2 A. Well, it's a draft contract. wells. We're still waiting to get proposals and all the viable information so we can make that Okay. So it sounds like you told me you're doing two separate things. One, you're determination. keeping an eye on the monitoring reports for the 6 So this was a draft contract, and you various wells in the area to look for trends in the 7 were going to insert the name of the contractor later? Or I mean, was there a particular concentration; is that correct? We're reading the documents 9 contractor that this contract was intended for? 10 as they come out for the station. I mean, it's 10 Well, the scope of work. The scope quarterly monitoring reports, any remediation 11 of work and the terms and conditions have been reports, communications with the agencies, and so on. prepared for whoever we are going to be able to 12 Q. Okay. So you're monitoring the 13 contract with. 14 reports that are being generated by the consultant 14 Q. Is there a time frame as to when you that's working on the Mobil 18-JMY site; is that what 15 expect to have a contractor in place? 15 16 A. No. I couldn't venture to say. Not 16 vou're doing? MR. AXLINE: Objection. Asked and answered. 17 without proper authorization. 17 O. What do you mean by "not without 18 THE WITNESS: That's one of the things 18 19 we are doing for this site and many other sites as 19 proper authorization"? 20 Well, we -- staff will prepare 20 well. contracts and estimate budgets, and so forth. But 21 BY MS. ROY: 21 it's really our Board of Directors that make the 22 Q. Other than monitoring those reports, determination. We're not authorized to do anything 23 what else is OCWD doing specific to Mobil 18-JMY? 23 24 We prepared a scope of work that 24 without their authorization. 25 Other than -- going back to the map, 25 we're seeking assistance on implementing to -- which Page 1178 Page 1176 other than the three yellow squares that you said will eventually help us to model the fate and 2 reflect wells that have MTBE in them, does OCW transport of contamination in that area. 2 believe that any of the other wells in the area are Q. And this is the scope of work that 3 threatened by MTBE from Mobil 18-JMY? was presented to Komex that you referenced earlier, 4 4 5 or is this something else? 5 A. Those three wells are production 6 wells. So they are the ones that are -- that have 6 This is -- part of the scope of 7 work is work that Komex was going to help us on, 7 been impacted already. 8 There are other production wells in the area and we have been working to acquire a new 8 that we think are threatened by MTBE. I did not consultant in their replacement. 9 9 mention the monitoring wells that have MTBE detected Q. Has one been found yet? 10 10 11 in them, but because they are not production wells, We are working to contract with one. 11 we don't consider them to be the same kind of threat 12 We have prepared a contract, but we don't have one on 12 13 as we would a production well. 13 contract as yet. O. Understood. Focusing on production 14 Q. And which consultant is that? What 14 15 wells. What specific wells on this map does OCWD 15 company? believe are threatened by Mobil 18-JMY? 16 Well, we have looked at several 16 There's a number of wells that consultants. So many of them are already doing work 17 17 for ExxonMobil and some of the other oil companies 18 are indicated by a well symbol. You will see a large system symbol in the legend. I can name a few that it's difficult to find one that has the kind of 19 expertise that we need and isn't conflicted for this 20 of them, if you want me to. 20 21 Well, what I would like to know is 21 work. specifically which ones do you think are threatened But we're -- Roy Herndon and other managers 22 22 23 are looking at a number of companies. 23 by Mobil 18-JMY? Is your understanding that if You mentioned that a contract was it's on the map, any of these production wells are

9 (Pages 1175 to 1178)

25 threatened, or are there specific ones that you

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25 prepared. With whom was that contract going to be

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Page 1195

contamination. Can you tell me what specifically they should have done at this station in order to contain the contamination?

- A. I can't comment specifically what -what a company should do to contain it, only that it needs to be contained. There's a variety of measures that might be available that would be effective, but whatever was done at the site did not contain the contamination.
- All right. So your opinion is that merely that it escaped, and so they weren't working 11 adequately, is that what your -- is that what your opinion is?

I'm trying to understand what else do you think they could have possibly done at this site?

MR. AXLINE: Objection. Asked and answered.

THE WITNESS: I can't comment specifically 18 on what steps should have been taken, only that the steps that were taken did not stop the contamination 20 from leaving the site and getting into groundwater.

- BY MS. ROY: 22 O.
- Do you have any opinion as to what should have been done to further delineate the 23 24 contamination?
- 25 They should have collected samples

claim, and have not determined that they have had any

Page 1197

Page 1198

- conversations regarding this site.
 - All right. Has OCWD had any
- communications with anyone at the Santa Ana Regional Water Quality Control Board specific to Mobil 18-JMY?
- 6 I can't recall who the regulatory
- -- who the regulator is for this site, that's been
- assigned this site. But I -- we have had some
- conversations with Ken Williams, who is the chief
- 10 of the Water Board UST unit, with -- that involved
- all the sites. So this site was in the context of
- 12 our discussion, but it wasn't specific about just
- 13 this site.
- 14 Q. Okay. Other than those general
- conversations with Ken Williams, do you recall any 15
- 16 other communications with the Regional Water Quality
- Control Board specific to this site? 17
- 18 A. I don't recall.
 - I do have a couple letters from Ken Q.
- 20 Williams that I want to go over with you.
 - A. Okay.
- 22 In preparation for today's O.
- deposition, did you do anything to determine the 23
- scope and extent of OCWD's communications with the
- Regional Water Quality Control Board regarding this

Page 1196

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- site? I wasn't aware there was a specific
- scope for communications that were specific to this 4
- 5 O. I'm not sure I understood that.
 - You weren't aware that there were any

7 specific communications, is that --

- 8 A. Maybe I misunderstood your question.
 - Can you ask that again?
- 10 Absolutely.
- 11 Did you do anything in preparation for the
- 12 deposition to determine whether or not OCWD had any
- 13 specific communications with the Regional Water
- 14 Quality Control Board regarding Mobil 18-JMY?
- 15 A. Oh. I certainly asked Roy Herndon,
- 16 chief hydrogeologist at the District, about
- 17 communications with the sites. Also discussed
- communications with our Public Relations or
- 19 Communications Department to find out whether they
- had had any discussion. And Craig Miller, who is
- 21 assistant general manager in charge of our
- 22 department as well, but none of them recalled any
- 23 communications with the Water Board on this site.
- 24 Okay. You referenced Roy Herndon and 25 Craig Miller, and then you said there were some

from deeper saturated zones and from farther away from the station, at least in the downgradient

3 direction.

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- And when did you form that opinion? O.
- 5 Well, I can't give you a specific 6 date, but it was in the process of evaluating the 7 site.
- 8 Q. Have you ever relayed to anyone at ExxonMobil or their consultants that they needed to
- 10 be doing more to delineate at the site?
- 11 No, I haven't, because I
- 12 actually didn't join the District until after the suit had been filed, and so I didn't think I was able
- 14 or allowed to have that kind of discussion with the 15 ETIC and have had no conversations with ETIC in
- 16 regard to this site.
- 17 Q. Are you aware of any communication by 18 OCWD prior to your arrival at OCWD with either 19 ExxonMobil or their consultants regarding this site?
 - A. No. I am not.
- 21 O. Did you attempt to determine whether 22 or not any communication like that occurred?
- 23 A. I have talked with Roy Herndon and other staff that I thought might have been involved
 - with all of the sites that are associated with our

14 (Pages 1195 to 1198)

Page 1207 Page 1209 OCWD, you've never seen other leaking underground sites that Orange County Health Care Agency 2 storage tank lists; is that correct? considered to be their priority sites for MTBE 3 A. I'm not certain what you asked me. 3 impacts, but my memory is failing me because it Are you asking -- if you're asking me have I seen doesn't -- what I remember doesn't look like this. It looks different than this. But apparently this lists before I joined the District, it's possible, 6 6 but I can't recall. must be it. 7 Q. Once you joined the District, though, 7 Q. All right. But you're not certain? 8 A. But I'm not certain. I just -- it's did you do anything to review prior lists that were 8 9 dated prior to your joining the OCWD? 9 a subtle difference. I seem to remember a landscape 10 A. Yes. I had a discussion with Ken format rather than a portrait format. And I don't 11 Williams at the Regional Water Quality Control Board remember the staff names associated with the 11 in Santa Ana region and acquired a list of sites that 12 different sites. the Water Board had been maintaining. 13 13 O. All right. Do you recall, though, 14 I also talked to the Health Care Agency 14 specifically asking for their highest priority list? 15 about sites that it might have been looking at where 15 A. I don't remember using the terms 16 MTBE has been impacted. 16 "highest priority list," but asking them if they had a list of sites they considered to be key MTBE sites 17 And I talked to the City of Anaheim about 17 18 sites that -- on a list that it might have for 18 that they were tracking. 19 Q. Did you give them sort of a set of 19 MTBE-impacted sites. 20 Q. And did all of those agencies provide 20 criteria, in terms of the type of sites that you were 21 you with lists? 21 interested in getting a list on? 22 22 Only that it involved MTBE and TBA. A. No. A. 23 23 Q. Which ones did? Flipping to the third page of the I got a list from the Water Board. 24 24 document, which has got the Bates label 168137. I 25 The Anaheim had an old list. It was not a current notice that the first several line entries here talk Page 1208 Page 1210 list, or it was not a list that they were using about a criteria. to track stations. So, in that sense, it wasn't 2 Do you know whether that's something that 3 the same kind of list that the Water Board had, 3 you created or that Orange County Health Care Agency where they were actually tracking sites and data created? 5 and information from those sites. 5 A. I don't think that's anything 6 So I got some information from all of them. 6 that I would have given the Health Care Agency. 7 Whether I prepared a list from my discussions with 7 I wouldn't ask them to identify what the greatest 8 them or whether they gave me actual lists, I can't potential to impacted drinking water was, but I 9 9 don't remember the conversation. So I can't recall recall.

10 MS. ROY: All right. This might be what you 11 might be referring to.

12 THE REPORTER: Exhibit 74.

(Exhibit No. 74 was marked.)

14 BY MS. ROY:

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Q. Exhibit 74 is a document with a Bates 15 16 label of OCWD MTBE 001-168135 through 168141.

Mr. Bolin, are you familiar with this 18 document?

19 A. I see my name, my signature on the 20 second page of the document. But I actually don't 21 remember the document.

22 Q. Okay. Going to the second page. You 23 said you see your signature. You don't recall 24

preparing this request for public records? A. I do remember receiving a list of 25

exactly what exchanged.

Flipping several more pages in, to O.

12 168140. 13

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I'm reading -- I'm sorry. A.

14 Go ahead. Q.

15 I beg your pardon. I'm reading page 16 3.

17 I can't recall specifically, but I believe 18 those are the Health Care Agency's criteria for the

19 list.

20 All right. If you could flip a few pages in to page 168140. Several lines down it looks

22 like there's an entry that Mobil 18-JMY is on their

23 list.

24 Huh-huh,

25 Did you have any conversations with

17 (Pages 1207 to 1210)

	Page 1211		Page 1213
1	Orange County Health Care Agency as to why Mobil	1	Q. All right. Are you aware of any sort
	18-JMY was on the list?	2	of practice that relates for OCWD when they
3	A. No.	3	receive these sort of lists?
4	Q. Did you have any conversation with	4	A. No.
	them about to what extent they were monitoring Mobil	5	Q. Okay.
6	18-JMY?	6	A. I don't know what the context of
7	A. No.	7	the document is or I mean, I don't know what the
' 8	Q. Okay. And did you have any	8	content is. I don't know what the purpose of
	conversations with them about what should be done to	9.	receiving the document is, so I can't comment on
	address the contamination from Mobil 18-JMY?	10	what was done with it.
$\frac{10}{11}$		11	· · · · · · · · · · · · · · · · · · ·
$\frac{11}{12}$			Q. And do you have any idea as to who at OCWD it would have been forwarded to?
	Q. Other than asking Orange County	12	
	Health Care Agency for their list of highest priority	13	A. No, I don't know. I haven't seen it.
	sites, did you have any other sort of communication	14	It appears to have come from an OCWD file, but I
	with that entity about Mobil 18 JMY?	15	don't know whose file this would have been.
16	A. I don't recall any specific	16	Q. All right. Is there any way that we
	communications that were specific about 18 JMY.	17	can determine where it came from within OCWD?
18	MS. ROY: Okay. Let's do one last big one,	18	A. I honestly don't know how you would
	and then maybe take a break. Does that sound good to	19	do that, except to query each department, and show it
	you?	20	around, and try and find somebody who recognizes it.
21	THE WITNESS: Yes.	21	MS. ROY: All right. Thank you. Why don't
22	MS. ROY: All right. 75?	22	we go ahead and take a short break and resume.
23	THE REPORTER: Exhibit 75.	23	THE VIDEOGRAPHER: Going off the record.
24	(Exhibit No. 75 was marked.)	24	The time is 10:28 a.m.
25	BY MS. ROY:	25	(Recess taken.)
	Page 1212		Page 1214
1	Q. Exhibit 75 is a pretty large	1	THE VIDEOGRAPHER: We are back on the
	document. It's Bates labeled OCWD-MTBE-001-064112	2	record. The time is 10:51 a.m. This marks the
	through 064246.	3	beginning of video No. 2 in the deposition of David
4	Mr. Bolin, have you ever seen this document	4	P. Bolin.
	before?	5	BY MS. ROY:
6	A. I don't recall having seen this	6	Q. All right. Mr. Bolin, directing your
	document.	7	attention back to Mobil 18-JMY. So far we have
8	Q. Have you seen printouts similar to	8	talked about OCWD's communications with the Orange
		ı	tunted about 66 th b b communications with the stange
	this one that perhans were from a different date?	19	County Health Care Agency and the Santa Ana Regional
1 1 (1)	this one that perhaps were from a different date?	9 10	County Health Care Agency and the Santa Ana Regional Water Quality Control Board
10	A. I don't think so.	10	Water Quality Control Board.
11	A. I don't think so.Q. I notice that well, first of all,	10 11	Water Quality Control Board. Has OCWD had any communications with the
11 12	A. I don't think so. Q. I notice that well, first of all, the title of it is, "County of Orange environmental	10 11 12	Water Quality Control Board. Has OCWD had any communications with the California Department of Health related to Mobil
11 12 13	A. I don't think so. Q. I notice that well, first of all, the title of it is, "County of Orange environmental health groundwater cleanup program, all Site Summary	10 11 12 13	Water Quality Control Board. Has OCWD had any communications with the California Department of Health related to Mobil 18-JMY?
11 12 13 14	A. I don't think so. Q. I notice that well, first of all, the title of it is, "County of Orange environmental health groundwater cleanup program, all Site Summary Report by city, name, by street address."	10 11 12 13 14	Water Quality Control Board. Has OCWD had any communications with the California Department of Health related to Mobil 18-JMY? A. Not that I'm aware of.
11 12 13 14 15	A. I don't think so. Q. I notice that well, first of all, the title of it is, "County of Orange environmental health groundwater cleanup program, all Site Summary Report by city, name, by street address." I notice there's a stamp here that says,	10 11 12 13 14 15	Water Quality Control Board. Has OCWD had any communications with the California Department of Health related to Mobil 18-JMY? A. Not that I'm aware of. Q. Okay. Are you aware of
11 12 13 14 15 16	A. I don't think so. Q. I notice that well, first of all, the title of it is, "County of Orange environmental health groundwater cleanup program, all Site Summary Report by city, name, by street address." I notice there's a stamp here that says, "Received January 09, 1997, OCWD." Do you see that?	10 11 12 13 14 15 16	Water Quality Control Board. Has OCWD had any communications with the California Department of Health related to Mobil 18-JMY? A. Not that I'm aware of. Q. Okay. Are you aware of communications by OCWD with any other regulator of
11 12 13 14 15 16 17	A. I don't think so. Q. I notice that well, first of all, the title of it is, "County of Orange environmental health groundwater cleanup program, all Site Summary Report by city, name, by street address." I notice there's a stamp here that says, "Received January 09, 1997, OCWD." Do you see that? A. Yes.	10 11 12 13 14 15 16 17	Water Quality Control Board. Has OCWD had any communications with the California Department of Health related to Mobil 18-JMY? A. Not that I'm aware of. Q. Okay. Are you aware of communications by OCWD with any other regulator of any kind related to Mobil 18-JMY?
11 12 13 14 15 16 17	A. I don't think so. Q. I notice that well, first of all, the title of it is, "County of Orange environmental health groundwater cleanup program, all Site Summary Report by city, name, by street address." I notice there's a stamp here that says, "Received January 09, 1997, OCWD." Do you see that? A. Yes. Q. Is that something that's commonly	10 11 12 13 14 15 16 17	Water Quality Control Board. Has OCWD had any communications with the California Department of Health related to Mobil 18-JMY? A. Not that I'm aware of. Q. Okay. Are you aware of communications by OCWD with any other regulator of any kind related to Mobil 18-JMY? A. I can't recall any other
11 12 13 14 15 16 17 18	A. I don't think so. Q. I notice that well, first of all, the title of it is, "County of Orange environmental health groundwater cleanup program, all Site Summary Report by city, name, by street address." I notice there's a stamp here that says, "Received January 09, 1997, OCWD." Do you see that? A. Yes. Q. Is that something that's commonly applied to documents when they come in to OCWD?	10 11 12 13 14 15 16 17 18	Water Quality Control Board. Has OCWD had any communications with the California Department of Health related to Mobil 18-JMY? A. Not that I'm aware of. Q. Okay. Are you aware of communications by OCWD with any other regulator of any kind related to Mobil 18-JMY? A. I can't recall any other communications.
11 12 13 14 15 16 17 18 19 20	A. I don't think so. Q. I notice that well, first of all, the title of it is, "County of Orange environmental health groundwater cleanup program, all Site Summary Report by city, name, by street address." I notice there's a stamp here that says, "Received January 09, 1997, OCWD." Do you see that? A. Yes. Q. Is that something that's commonly applied to documents when they come in to OCWD? A. I can't comment whether it's common,	10 11 12 13 14 15 16 17 18 19 20	Water Quality Control Board. Has OCWD had any communications with the California Department of Health related to Mobil 18-JMY? A. Not that I'm aware of. Q. Okay. Are you aware of communications by OCWD with any other regulator of any kind related to Mobil 18-JMY? A. I can't recall any other communications. Q. Now, shifting your attention to
11 12 13 14 15 16 17 18 19 20 21	A. I don't think so. Q. I notice that well, first of all, the title of it is, "County of Orange environmental health groundwater cleanup program, all Site Summary Report by city, name, by street address." I notice there's a stamp here that says, "Received January 09, 1997, OCWD." Do you see that? A. Yes. Q. Is that something that's commonly applied to documents when they come in to OCWD? A. I can't comment whether it's common, but I have seen it often.	10 11 12 13 14 15 16 17 18 19 20 21	Water Quality Control Board. Has OCWD had any communications with the California Department of Health related to Mobil 18-JMY? A. Not that I'm aware of. Q. Okay. Are you aware of communications by OCWD with any other regulator of any kind related to Mobil 18-JMY? A. I can't recall any other communications. Q. Now, shifting your attention to actual water users. Has OCWD had any communications
11 12 13 14 15 16 17 18 19 20 21 22	A. I don't think so. Q. I notice that well, first of all, the title of it is, "County of Orange environmental health groundwater cleanup program, all Site Summary Report by city, name, by street address." I notice there's a stamp here that says, "Received January 09, 1997, OCWD." Do you see that? A. Yes. Q. Is that something that's commonly applied to documents when they come in to OCWD? A. I can't comment whether it's common, but I have seen it often. Q. All right. Is it safe to trust the	10 11 12 13 14 15 16 17 18 19 20 21 22	Water Quality Control Board. Has OCWD had any communications with the California Department of Health related to Mobil 18-JMY? A. Not that I'm aware of. Q. Okay. Are you aware of communications by OCWD with any other regulator of any kind related to Mobil 18-JMY? A. I can't recall any other communications. Q. Now, shifting your attention to actual water users. Has OCWD had any communications with Mesa Consolidated Water District about Mobil
11 12 13 14 15 16 17 18 19 20 21 22 23	A. I don't think so. Q. I notice that well, first of all, the title of it is, "County of Orange environmental health groundwater cleanup program, all Site Summary Report by city, name, by street address." I notice there's a stamp here that says, "Received January 09, 1997, OCWD." Do you see that? A. Yes. Q. Is that something that's commonly applied to documents when they come in to OCWD? A. I can't comment whether it's common, but I have seen it often. Q. All right. Is it safe to trust the stamp and assume that it was received roughly on	10 11 12 13 14 15 16 17 18 19 20 21 22 23	Water Quality Control Board. Has OCWD had any communications with the California Department of Health related to Mobil 18-JMY? A. Not that I'm aware of. Q. Okay. Are you aware of communications by OCWD with any other regulator of any kind related to Mobil 18-JMY? A. I can't recall any other communications. Q. Now, shifting your attention to actual water users. Has OCWD had any communications with Mesa Consolidated Water District about Mobil 18-JMY?
11 12 13 14 15 16 17 18 19 20 21 22	A. I don't think so. Q. I notice that well, first of all, the title of it is, "County of Orange environmental health groundwater cleanup program, all Site Summary Report by city, name, by street address." I notice there's a stamp here that says, "Received January 09, 1997, OCWD." Do you see that? A. Yes. Q. Is that something that's commonly applied to documents when they come in to OCWD? A. I can't comment whether it's common, but I have seen it often. Q. All right. Is it safe to trust the	10 11 12 13 14 15 16 17 18 19 20 21 22	Water Quality Control Board. Has OCWD had any communications with the California Department of Health related to Mobil 18-JMY? A. Not that I'm aware of. Q. Okay. Are you aware of communications by OCWD with any other regulator of any kind related to Mobil 18-JMY? A. I can't recall any other communications. Q. Now, shifting your attention to actual water users. Has OCWD had any communications with Mesa Consolidated Water District about Mobil

Page 1223 Page 1225 BY MS. ROY: understand from my perspective why I kind of want to 2 Q. Is there a way to break it down by know when you guys are going to decide what you want 3 plume and to attribute costs specific to plume 2? 3 to do with respect to this station. MR. AXLINE: Objection. Asked and answered. Have you personally been charged with trying 5 THE WITNESS: No. 5 to get a consultant in place by a certain date? 6 BY MS. ROY: 6 A. No. 7 7 Q. All right. We have talked now about Q. Okay. Has anyone given you sort of a general time frame as to when they would like to see 8 what OCWD has done in the past with respect to Mobil 18-JMY. I'd like to know now what OCWD intends to do 9 a consultant hired for OCWD? 9 10 in the future with respect to Mobil 18-JMY. Can you 10 Α. As soon as we can. But no specific give me a list of what you plan to do? 11 11 deadlines. A. Actually, this is Exhibit 48, I think 12 12 Q. Okay. Now, focusing on remediation. you called it. There are two exhibit numbers on Has OCWD taken any action with respect to remediation 13 14 here. But this is basically the list. of any sort of contaminant release from Mobil 18-JMY? 15 Q. All right. Why don't we walk through 15 No. Okay. Do they plan to in the future? 16 it, and you tell me specifically which tasks you 16 Q. think need to happen with respect to the Mobil 17 We think it's substantially likely 18 18-JMY. 18 that we are going to need to, given that this station 19 has had a release of MTBE and TBA, it's migrated off A. I can comment on some of the tasks 20 that are going to be necessary, such as retaining an site, it's not being captured by remediation at the 20 expert to provide technical assistance to us. But 21 site, nor has it ever been captured or contained by 22 I can't be specific as to which ones we definitely 22 remediation at the site, and that we have nearby are or definitely are not going to do, because production wells that have been impacted by the same 24 that hasn't been determined yet. 24 compound that has been released at this site. We Is there a timetable set for when it 25 don't -- we know that all of the stations in this area 25 Q. Page 1224 Page 1226 will be determined what needs to be done with respect are suspect source locations for that contamination. 2 2 to Mobil 18-JMY? So I can't give you a plan as to when a lot 3 A. This question has been asked a couple of this will occur. I simply don't know. We have a of times for other stations, but the answer is the lot of work to do yet. same. There is no timetable. I can't give you a 5 5 Q. And you don't know, in terms of the type of remediation that OCWD intends to engage in; specific time. Certainly not before we're able to 6 7 secure an expert -- or technical expert to assist us 7 is that correct? A. No. No. 8 with these -- with the evaluations and the remedial 8 9

planning.

10 Q.

So if I understand your testimony 11 correctly -- and tell me if I am wrong -- basically 12 all the future action that OCWD intends to take with respect to Mobil 18-JMY is contingent on first hiring 14 a new consultant to assist you; is that correct?

15 MR. AXLINE: Objection. Mischaracterizes

16 testimony. 17 THE WITNESS: I don't know if that's fair to 18 say, that we won't do anything until we're able to 19 hire an expert. I won't say that we will do -- what 20 we will do before we hire the expert. I guess it 21 depends on who the expert is and when we're able to 22 retain them. 23 BY MS. ROY:

24 Q. Okay. Now, we've sort of talked 25 about sort of this time frame, and you can obviously

9 All right. Okay. You mentioned Q. 10 earlier that you have reviewed some of the regulatory files for Mobil 18-JMY; is that correct?

12 Documents pertaining to this site 13 that are in agency files, yes.

14 And is OCWD's view that -- with 15 respect to OCHCA, that the work that's been done 16 related to this site has been competent?

MR. AXLINE: Objection. Asked and answered. THE WITNESS: I'm not rendering an opinion

18 19 whether it's competent or incompetent, either way.

20 But the oversight of this site thus far has not

21 resulted in containment of the contamination.

22 Contamination has escaped the site.

23 BY MS. ROY:

24 Q. Okay. So what should the Orange 25 County Health Care Agency have done differently, in

21 (Pages 1223 to 1226)

17

Page 1227 Page 1229 terms of overseeing this site? or inadequate? 2 A. I don't know if they have been able A. I don't recall any specific occasions 3 to do anything differently. They cannot dictate the when I thought their response was insufficient or kind of remediation that should be implemented. They inadequate. 5 5 can only complement -- comment on remediation that is Q. And are there any instances where the 6 planned or proposed by the RP, the responsible party, OCWD has told the Regional Board that they should be 7 or the consultant working for that site. doing something differently with respect to Mobil 18 8 Therefore, they can -- they can't dictate 8 ЈМҮ? 9 9 where wells will be positioned or the specifications I don't recall any specific such 10 of those wells or what technology will be used to 10 instances. 11 install those wells. They can only comment on work 11 Q. All right. Now, I'm going to totally 12 plans or proposals provided by the consultant working 12 shift focus on you. 13 for the site. 13 You mentioned earlier that you felt that there was contamination that had escaped remediation 14 So what could they have done? I don't know 14 15 that they could have done anything differently. Or 15 at Mobil 18-JMY; is that correct? if they had done anything differently, it would have 16 Α. 17 resulted in a different situation, different set of 17 Okay. Do you have a sense as to how O. 18 circumstances. much contamination has escaped? 18 19 A. No, I don't. You're asking me to The one having control over the site is 19 20 the -- is the site owner/operator/generator and their 20 quantify the mass, and I can not. 21 consultant. 21 O. Do you have even sort of a 22 BY MS. ROY: 22 guesstimate as to the mass? 23 Q. Did you -- having reviewed the 23 A. No. various files, were there any instances where -- that MR. AXLINE: Objection. Calls for 24 24 Health Care Agency did not provide comments in a 25 speculation. Page 1228 Page 1230 BY MS. ROY: timely fashion? A. I can't recall any specific instances 2 O. Do you have an idea as to when the in this case specific to this site. 3 contamination escaped remediation at Mobil 18 JMY? Q. Okay. Do you recall any instances 4 A. I'm going to refer to my summary. where you felt that the Health Care Agency's comments 5 I don't know when the contamination escaped were insufficient or inadequate? 6 remediation. I can only comment on when remediation A. I don't recall any specific examples 7 was initiated. It was in April 1997. I began where I thought their comments -- the Health Care pumping out selected wells in which I assume Agency's comments were insufficient or inadequate. 9 groundwater contamination had been detected and $\overline{10}$ Q. And am I correct that OCWD never told 10 started pumping out the tank cavity in February '98. $\overline{11}$ the Health Care Agency that they should be doing 11 I don't know when the releases occurred that resulted anything differently? Is that correct? 12 in off-site contamination, so I can't -- I can't A. I don't recall any specific comments quantify what that time frame is between the release to the Health Care Agency that they should be doing 14 and when remediation occurred. Only that there is anything different, contamination detected off site, and that it's 16 Q. Now, focusing on the Regional Board. unlikely, more than unlikely, that any on-site 16 17 Having reviewed the various files that are 17 remediation will capture or contain that off-site out there, did you see any instances where the 18 contamination. Regional Board was not responding in a timely fashion 19 And what are you relying upon to draw Q. 20 to issues related to Mobil 18 IMY? 20 that conclusion? 21 My answer is the same as it was for 21 Analytical results and data and 22 the Health Care Agency. I don't recall any such 22 information provided in the report -- I believe was 23 instances, submitted as an exhibit, but let me refer you to the 23 Q. Okay. Do you recall any instances binder in Tab 8. There is a report, which I believe where you felt that their response was insufficient I've cited already, ETIC's engineering report dated

22 (Pages 1227 to 1230)

	Page 1283		Page 1285
1	BY MR. ANDERSON:	1	Q. Have you ever seen any letters from
2	Q. Am I correct that that is a no, then,	2	OCWD to Chevron or any of its consultants regarding
3	that you have not looked through defendants'	3	this site?
4	documents?	4	A. I don't recall any.
5	A. Well, I don't know what is in	5	Q. And you've never personally called
6	defendants' documents. So I can't say that I have	6	Chevron or any of their consultants, correct?
7	seen them or haven't seen them. I'm assuming that	7	A. I wouldn't do that.
8	everything that's in this binder is in defendants'	8	Q. Is that a "no"?
9	documents, but I could be wrong.	9	A. That's a "no."
10	Q. Do you understand that defendants,	10	Q. Do you have any firsthand knowledge
11	like Chevron, have produced documents to OCWD in this	11	about the alleged gasoline releases at this site?
12	litigation?	12	A. I have not personally observed
13	A. I understand that defendants in this	13	releases from this site. I think that's what you're
14	dispute have provided documents, but I don't know	14	asking me. The answer is no.
15	that they have all come to Orange County Water	15	Q. Sure. You're only relying on reports
16	District.	16	from other people in terms of your knowledge
17	Q. Have you looked at any of the	17	regarding any releases at this site?
18	documents Chevron has provided to Orange County Water	1.8	A. I'm relying on reports that are
19	District in this litigation?	19	prepared by Chevron's consultant. I have no reason
20	A. I don't know if I have or haven't. I	20	to dispute those reports, and so the information I
21	haven't searched the documents. I don't have a	21	glean from the reports, I think, is reasonably
22 23	specific set of documents that I think you're	22	accurate. Or if it's not accurate, it's reasonably
24	referring to. So I don't know whether I have seen any documents that are	24	reliable.
25	Q. I understand. And I think maybe	25	Q. Do you recall which regulatory agency is overseeing the remediation at this site?
		123	
_	Page 1284		Page 1286
1	TVO're miscommunicating. I understand that maybe some	1 -	
	we're miscommunicating. I understand that maybe some	1_1_	A. I don't, off the top of my head. I
2	of the same documents in Chevron's productions may be	2	believe it is Orange County Health Care Agency.
2	of the same documents in Chevron's productions may be part of these other productions, but have you ever	3	Delieve it is Orange County Health Care Agency. Q. Has OCWD spoken with Orange County
2 3 4	of the same documents in Chevron's productions may be part of these other productions, but have you ever looked at a set of documents, whether or not they are	2 3 4	Q. Has OCWD spoken with Orange County Health Care Agency about this site?
2 3 4 5	of the same documents in Chevron's productions may be part of these other productions, but have you ever looked at a set of documents, whether or not they are repetitive of other documents or not, that Chevron	2 3 4 5	Q. Has OCWD spoken with Orange County Health Care Agency about this site? A. Not that I recall.
2 3 4 5 6	of the same documents in Chevron's productions may be part of these other productions, but have you ever looked at a set of documents, whether or not they are repetitive of other documents or not, that Chevron has produced in this litigation?	2 3 4 5 6	Q. Has OCWD spoken with Orange County Health Care Agency about this site? A. Not that I recall. Q. Have they ever written to has OCWD
2 3 4 5 6 7	of the same documents in Chevron's productions may be part of these other productions, but have you ever looked at a set of documents, whether or not they are repetitive of other documents or not, that Chevron has produced in this litigation? A. I have not gone through the exercise	2 3 4 5 6 7	Delieve it is Orange County Health Care Agency. Q. Has OCWD spoken with Orange County Health Care Agency about this site? A. Not that I recall. Q. Have they ever written to has OCWD ever written to the Orange County Health Care Agency
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2 3 4 5 6 7 8 9	of the same documents in Chevron's productions may be part of these other productions, but have you ever looked at a set of documents, whether or not they are repetitive of other documents or not, that Chevron has produced in this litigation? A. I have not gone through the exercise of sifting through a set of documents that was specifically produced by Chevron. But documents that I have looked through might have been some of those	2 3 4 5 6 7 8 9 10	Delieve it is Orange County Health Care Agency. Q. Has OCWD spoken with Orange County Health Care Agency about this site? A. Not that I recall. Q. Have they ever written to has OCWD ever written to the Orange County Health Care Agency about this site? A. I have not I'm not aware of whether anybody else has.
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2 3 4 5 6 7 8 9 10 11 12	of the same documents in Chevron's productions may be part of these other productions, but have you ever looked at a set of documents, whether or not they are repetitive of other documents or not, that Chevron has produced in this litigation? A. I have not gone through the exercise of sifting through a set of documents that was specifically produced by Chevron. But documents that I have looked through might have been some of those documents. I simply don't know. Q. Sure. Have you ever been out to	2 3 4 5 6 7 8 9 10 11 12	District's files to determine whether or not anybody Description Q. Has OCWD spoken with Orange County Health Care Agency about this site? A. Not that I recall. Q. Have they ever written to has OCWD ever written to the Orange County Health Care Agency about this site? A. I have not I'm not aware of whether anybody else has. Q. Did you check Orange County Water District's files to determine whether or not anybody
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	of the same documents in Chevron's productions may be part of these other productions, but have you ever looked at a set of documents, whether or not they are repetitive of other documents or not, that Chevron has produced in this litigation? A. I have not gone through the exercise of sifting through a set of documents that was specifically produced by Chevron. But documents that I have looked through might have been some of those documents. I simply don't know. Q. Sure. Have you ever been out to personally see Chevron site 9-5401? A. I have gone out to see some of them, but I haven't recorded which ones. And I can't say whether I've seen this site or not. Q. Do you know if OCWD has ever communicated with the owners of Chevron 9-5401 or its consultants regarding any alleged gasoline releases at this site? A. I can't recall any such conversations	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Delieve it is Orange County Health Care Agency. Q. Has OCWD spoken with Orange County Health Care Agency about this site? A. Not that I recall. Q. Have they ever written to has OCWD ever written to the Orange County Health Care Agency about this site? A. I have not I'm not aware of whether anybody else has. Q. Did you check Orange County Water District's files to determine whether or not anybody from OCWD had written to the Health Care Agency? A. I have the files, and I don't recall seeing anything in there. Q. Does OCWD disagree with anything that the Health Care Agency has done in regards to their remediation at this site? A. I'm sorry. I'm not sure I heard your whole question. Q. Sure. Does OCWD disagree with
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	of the same documents in Chevron's productions may be part of these other productions, but have you ever looked at a set of documents, whether or not they are repetitive of other documents or not, that Chevron has produced in this litigation? A. I have not gone through the exercise of sifting through a set of documents that was specifically produced by Chevron. But documents that I have looked through might have been some of those documents. I simply don't know. Q. Sure. Have you ever been out to personally see Chevron site 9-5401? A. I have gone out to see some of them, but I haven't recorded which ones. And I can't say whether I've seen this site or not. Q. Do you know if OCWD has ever communicated with the owners of Chevron 9-5401 or its consultants regarding any alleged gasoline releases at this site? A. I can't recall any such conversations I'm not aware of whether anybody else has talked to	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Delieve it is Orange County Health Care Agency. Q. Has OCWD spoken with Orange County Health Care Agency about this site? A. Not that I recall. Q. Have they ever written to has OCWD ever written to the Orange County Health Care Agency about this site? A. I have not I'm not aware of whether anybody else has. Q. Did you check Orange County Water District's files to determine whether or not anybody from OCWD had written to the Health Care Agency? A. I have the files, and I don't recall seeing anything in there. Q. Does OCWD disagree with anything that the Health Care Agency has done in regards to their remediation at this site? A. I'm sorry. I'm not sure I heard your whole question. Q. Sure. Does OCWD disagree with anything that the Health Care Agency has done in

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	Page 1287		Page 1289
1	comments to to the consultant. And we're not	1	BY MR. ANDERSON:
2	disputing comments that might have been provided. I	2	Q. And I would direct you to the second
3	may not have seen all of them. In fact, I'm sure I	3	page of Exhibit 80, where you note that it's HB-1.
4	haven't. So I haven't seen anything that I would	4	Excuse me. Did I say HB-1? I meant to say HB-4.
-5	argue with the Agency about.	5	A. Oh. Yes. I stand corrected.
6	Q. Has OCWD spoken with any other	6	Q. Should we rely on the notes that you
7	regulatory agencies about this site?	7	have here on Exhibit 80, or do you think it's
8	A. Specific to the site, I'm not certain	8	different now after having looked at this Tab 2 in
9	of. But I know that the site was probably included	9.	your binder?
10	in general discussions, the general context in	10	A. Well, I'm confused by the
11	discussions with with the Santa Ana Regional Water	11	inconsistency. This allow me just a second to
12	Quality Control Board.	12	refer to the attached tables.
13	Q. When you say "general discussions,"	13	No, I cannot account for why it's not on the
14	do you think that the site 9-5401, was it ever	14	map, but I think it's probably correct in the table.
15	specifically named in any of those discussions?	15	Q. So that the table says that HB-4
16	A. I don't recall. We didn't talk about	16	is the closest well, so that's what you think is the
17	this site specifically. But it was certainly on the	17	closest well?
18	list of sites that we got from the Water Board.	18	A. Well, with the information I have in
19	Q. When you say, "got from the Water	19	front of me right here now, I think that's correct.
20	Board," what do you mean?	20	Q. Do you know whether or not HB-4 is
21	A. The Water Board provided us with a	21	downgradient from Chevron 9-5401?
$\frac{22}{2}$	list of sites in which at which there's been MTBE	22	A. Well, it's not on my map. I cannot
23	releases. This site is on that list.	23	recall where it's located. So I can't say for
24	Q. And you asked for that list; is that	24	certain.
25	correct?	25	Q. You can't find HB-4 is right there
	Page 1288		Page 1290
1	A. Yes.	1	on your map, if you're looking for it.
2	Q. Do you know what the let me	2	A. Oh, I'm sorry. I can read. Yeah.
3	just what exhibit are we on?	3	It's right here in front of me. You're right.
4	THE REPORTER: We are on 80.	4	This is the I can't I can't explain
5	(Exhibit No. 80 was marked.)	5	the discrepancy.
6	BY MR. ANDERSON:	6	Q. What discrepancy?
7	Q. Exhibit 80 is Bates labeled OCWD	7	A. Well, the map indicates that HB-4 is
8	MTBE-001192504 through 192511.	8	not the closest well, nearest drinking water well,
9	Can you identify that document?	9	and yet that is what I have written in these notes.
10	A. It looks like a list of some of the	10	Now, it's possible I had indicated that that
11	materials that I had prepared for deposition.	11	is the nearest production well downgradient from the
12	Q. And I have some specific questions	12	site, but there appears to be there is a possible
13	about this, but just for right now I wanted you to	13	error here, and I can't explain it.
14	have that in front of you labeled as an exhibit,	14	Q. But you think looking at the map,
15	because I'm going to ask you some questions where you	15	that WM-RES2 is the closest drinking well?
16 17	may want to refer to it.	16 17	A. WM-RES2 is closer to the Chevron site than HB-4.
18	Do you know what the closest drinking water production well is to this site? "This site" being	18	i i i i i i i i i i i i i i i i i i i
T ()	9-5401.	19	Q. Do you know if that's a drinking well or not?
	ノーノマひょ・	」 エフ	
19		20	A II is a production well
19 20	MR. AXLINE: Do you mean production well,	20 21	A. It is a production well. O Production well. Is this man drawn
19 20 21	MR. AXLINE: Do you mean production well, Counsel?	21	Q. Production well. Is this map drawn
19 20 21 22	MR. AXLINE: Do you mean production well, Counsel? MR. ANDERSON: Drinking water production	21 22	Q. Production well. Is this map drawn to scale?
19 20 21	MR. AXLINE: Do you mean production well, Counsel? MR. ANDERSON: Drinking water production well.	21 22 23	Q. Production well. Is this map drawn to scale? A. I believe that it is.
19 20 21 22 23	MR. AXLINE: Do you mean production well, Counsel? MR. ANDERSON: Drinking water production	21 22	Q. Production well. Is this map drawn to scale?

37 (Pages 1287 to 1290)

	Page 1291		Page 1293
1	A. Our GIS specialist.	1	producers as a suspect source?
2	Q. And who is that?	2	A. A Chevron station.
3	A. It is Linda Cokey.	3	Q. A Chevron station. But you don't
4	Q. Do you know what she did to determine	4	know if it was specifically named 9-5401?
5	where on this map to place these stations?	5	A. That's correct.
6	A. I gave her addresses for these	6	Q. So Orange County Water District has
7	stations. She located them in our database. It's a	7	told the City of Westminster that a Chevron station
8	Thomas Brothers Guide database.	8	could be susceptible source of the contamination?
9	Q. Do you know how she decided where to	9	A. No. I'm saying I haven't I
10	put these drinking water wells on this map?	10	didn't participate in the conversation. I know that
11	A. They are already located in our GIS	11	the gist of the conversation is that there's been
12	database system.	12	some detections of MTBE in drinking water production
13	Q. Do you know who the water producer is	13	wells. And that there is a list of defendants in a
14	associated with WM-RES 2?	14	dispute list of defendants in a dispute, an
15	A. The City of Westminster.	15	ongoing dispute, and the list is known to the
16	Q. Have you contacted the City of	16	producers.
17	Westminster to discuss Chevron 9-5401?	17	But you're asking me whether this Chevron
18	A. No.	18	station was identified with regards to any specific
19	Q. Do you know what the water producer	19	wells. I don't think so.
20	is associated with HB-4?	20	Q. And within Orange County Water
21	A. It's the City of Huntington Beach.	21	District, have you had any conversations with any
22	Q. Have you contacted the City of	22	other OCWD employees about Chevron 9-5401?
23	Huntington Beach to discuss Chevron 9-5401?	23	A. I don't recall any specific
24	A. No.	24	discussions, unless well, I might have had a
25	Q. Do you plan to contact either of	25	discussion with Roy Herndon, but only in the context
1		1	
1	Page 1292		Page 1294
1		1	_
1 2	those water producers to discuss Chevron 9-5401?	1 2	of the stations in which we were evaluating. But not
	those water producers to discuss Chevron 9-5401?	l	_
2	those water producers to discuss Chevron 9-5401? A. That's not my authority.	2	of the stations in which we were evaluating. But not anything specific, and it certainly would have been
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Page 1307

1 No. No. That's what I just said. I can't. I can't, because MTBE moves fairly freely. It's resistant to retardation and it's resistant to degradation. So because it moves so freely, and I 5 cannot imagine, I cannot think of any circumstances where MTBE is not going to move in its natural state, 7 or in the natural state -- in hydrogeology. In the hydrogeologic regime beneath the site, I cannot think

9 of any passive remedial technology that will 10 effectively prevent impacts drinking water. So then my original question was: 11 Does OCWD think that active remediation is required 12

at each site to remediate MTBE? And the answer would 13 be, yes, you do think that active remediation is 14 15 always required?

A. No. I think active containment is always required, not necessarily remediation.

Like I said, once it's contained, as long as 19 the contamination is contained, it doesn't really matter what kind of remediation is going to take place. I would suggest -- in fact, I would submit that active remediation would be the better choice. 23 But it's not necessary as long as you can control the 24 risk.

How would you contain the MTBE

Page 1309

1 In other cases, if it's a nominal release, 2 if it is within a tank pit and the tank pit is lined,

for example, then a more casual response would probably be okay.

Has OCWD evaluated the remediation Q.

6 occurring at site 9-5401?

Well, we have looked to see what the 8 remediation is. We know -- I mean, we have reviewed

the remedial history of site. I'm not sure what you 10 are asking me.

11 Q. And have you -- what remediation has 12 occurred at the site?

13 Oh. None, according to the records I

14 saw.

15 Q. Has anything begun in the last year,

16 that I know of?

17 A. I -- I don't know.

Do you know whether or not oxygen 18 19 injection and over-purging were approved in 2008 by

20 the Orange County Health Care Agency?

21 A. I know that it was -- now that you 22 have mentioned it, I do recall that it was proposed,

but I don't know whether it's been approved. I know 23

24 it was awaiting approval or some determination by the

25 Agency.

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Page 1308

Page 1310

without active remediation?

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9 10

25 order of the day.

Creating a groundwater depression. Changing flow direction. Putting up barriers to flow. Again, I'm not an expert in this area, but there's several different ways to control flow.

Q. And, generally speaking about remediation again, does OCWD think that remediation should begin before the groundwater flow or the extent of the plume are known?

A. It depends. It depends on what kind 11 of release has occurred. It depends on the complexity of the subsurface. Hydrogeology is very complex throughout this basin. It's not consistent. 13 It's not the same throughout the basin. It's very 15 complex.

16 And so it depends on how old the release is, 17 again, the size of the release; the circumstances of the release. If you're close to a drinking water 18 19 well, I would suggest that rapid response would be 20 more appropriate. If it's close to a storm drain or 21 if it's close to some -- to other wells, not 22 necessarily production wells, but other wells that 23 might act as conduits, or if it's close to some 24 sensitive receptor, then rapid response would be the

Do you disagree with the fact that active remediation has not occurred at the site yet?

3 I don't know what's happened at the 4 site.

> O. Well ---

6 All I'm saying is that the records I A. 7 reviewed did not indicate that there was remediation 8 at the site.

Q. And if that's --

10 I --A.

Q. Go ahead.

12 I was going to say, if oxygen is 13 being injected in the site to react with the

14 compounds, if you're saying that's being done now,

15 then I believe you.

16 But that's still passive remediation, and it 17 does not prevent the contamination from flowing off 18

19 So you think something more needs to 20 be done at this site to prevent the MTBE from leaving 21 the site: is that correct?

22 Well, yes. I think something needs 23 to be done at this site to prevent MTBE from leaving 24 the site.

25 And how would you propose doing that?

42 (Pages 1307 to 1310)

Page 1327 Page 1329 1 Oh, okay. Because the amount that consultants for Chevron have not tested it: has gone off site is exactly the same amount that has otherwise, it would have been in their reports. escaped remediation. There hasn't been any 3 Q. Do you think that MTBE will remediation. 4 migrate -- MTBE from this site will migrate to the 5 5 O. So what's your answer? deep aquifer? 6 It's the same. 6 A. A. Yes. 7 O. Could you please repeat that answer? 7 What do you base that on? O. 8 A. It's the same. 8 My understanding of hydrogeology and 9 MR. AXLINE: Objection. Asking the witness 9 my understanding of hydrogeology in the pressure to answer the same question repeatedly is obviously 10 zone. subject to an asked and answered objection. 11 11 It -- testing groundwater directly beneath 12 THE WITNESS: Maybe I'm a little confused. 12 the site might not detect anything, but it doesn't Perhaps you could ask me the question again. 13 13 necessarily flow straight down. It flows laterally, 14 BY MR. ANDERSON: 14 and then it drops. 15 15 Q. Do you contend the amount of MTBE --There is a downward gradient in this area 16 does OCWD think the amount of MTBE that has escaped 16 between the shallow aquifer and the deeper aquifer. remediation is significant? Water is being pumped out of that deeper aquifer, 17 18 Well, I think my previous answer --18 called the principal aquifer, to provide drinking well, it depends on what you mean by "significant." water to the community. And that actually pulls in 19 19 20 It's meaningful, in that it causes us 20 contamination, in this case MTBE and TBA, into the 21 to have to take some steps to determine what the 21 well when that happens, when it gets down into the threat is to drinking water wells, to production 22 22 principal aquifer. We have downward gradient. It's moving 23 23 wells. 24 24 laterally towards the wells. I think it's going to We have a source in proximity to drinking 25 water wells. There's been impacts in those wells. 25 get in there. Page 1328 Page 1330 There are a number of sources in this area that we Q. Does there need to be a conduit for 2 think are the potential sources of the impacts in it to get down to the deep aquifer? 3 those wells, so we have to go to some lengths to 3 A. It doesn't necessarily -- it doesn't understand what the impact from this particular site have to be an artificial conduit. It could be just a 5 5 is. natural conduit. 6 That is what I would consider to be a 6 Q. Have you identified -- has OCWD 7 7 significant escape or significant off-site migration identified any conduits, whether they are artificial 8 or a significant mass, whatever -- however you want 8 or natural, in the area that would allow MTBE to get 9 to refer to it. 9 to the deep aquifer? 10 So you're still investigating? 10 The production wells themselves can O. 11 11 sometimes serve as conduits. Sometimes contamination Α. 12 Do you think that the MTBE -- that will get into the shallow regions of a production 12 $\overline{13}$ the allegedly -- that the alleged release of MTBE 13 well and then flow down the annulus or flow down the gasoline has impacted the deep aquifer from this 14 filter pack, or what have you. 15 station? 15 In this case, there are a number of wells 16 that are in proximity to this site. I'm looking to Α. I don't know. 16 17 Q. Have you tested the deep aquifer 17 see if I have screen intervals. I have boring beneath this site? 18 depths. I don't have the screen intervals. 19 Directly beneath the site? 19 A. But given that water doesn't necessarily 20 20 have to go into the screen; it can go into just a Q. Yes. 21 A. No. 21 hole in the ground. Some of these wells go well into 22 Do you know if any other regulatory 22 the production aquifer. agencies have tested the deep aquifer beneath this 23 23 Now, on your notes you say it's a 24 site? potential migration path. Have you confirmed whether 24

47 (Pages 1327 to 1330)

or not it's a migration path or not?

25

No, I don't. I know that the

			, , , , , , , , , , , , , , , , , , , ,
	Page 1331		Page 1333
1	A. No. That's why we wrote it was a	1_	but other there's other pollutants on the list as
2	potential migration path.	,2	well.
3	Q. Does OCWD think that any releases	3	Q. That's not a true capture zone
4	from 9-5401 have impacted any production wells?	4	production, is it not?
5	A. We don't know. This is a suspect	5	A. No, it is not.
6	site, along with the other sites in this proximity.	6	MR. ANDERSON: I don't think I have that
7	We know we've had detections in production wells,	7	much longer. But if you guys need to take a break,
8	given that this is a suspect site, suspect source	8	we can take one.
.9	site for that contamination, this is certainly a	9	MR. AXLINE: It's up to you.
10	possibility.	10 11	THE WITNESS: I could use one, if you don't mind.
$\frac{11}{12}$	Q. What are you doing to determine	12	
$\frac{12}{13}$	whether or not gasoline containing MTBE allegedly	13	THE VIDEOGRAPHER: Going off the record. The time is 2:43 p.m.
	released from this site has impacted any production wells?	14	(Recess taken.)
$\frac{14}{15}$	A. Well, we're continuing to test water	15	THE VIDEOGRAPHER: Okay. We are back on the
$\frac{15}{16}$	in the basin. We're trying to evaluate this site,	16	record. The time is 3:00 p.m.
$\frac{10}{17}$	along with other sites, and at some point in time	17	(Exhibit No. 83 was marked.)
	we'll be conducting some mathematical modeling, some	18	BY MR. ANDERSON:
$\frac{10}{19}$	fate and transport modeling, to determine what the	19	Q. Mr. Bolin, I have just handed you
20	disposition of contamination from this site might be	20	Exhibit 83, which is marked and Bates labeled OCWD
21	with regards to the wells.	21	MTBE-001-190415 through 190416.
22	Q. You haven't started any of that	22	Have you seen this document before?
23	modeling yet?	23	A. I feel I must have, but it doesn't
24	A. No.	24	I don't recall the content of the document.
25	Q. What additional information do you	25	Q. I think it's the first document
i	Page 1332		Page 1334
1	·	1	•
$\frac{1}{2}$	need to start that modeling?	1	behind Tab 8.
2	need to start that modeling? A. I'm not a modeler, so I can't really	2	behind Tab 8. Did you rely on this document in reaching
3	need to start that modeling? A. I'm not a modeler, so I can't really say what information is going to be required.	2 3	behind Tab 8. Did you rely on this document in reaching your opinions regarding this site?
2 3 4	need to start that modeling? A. I'm not a modeler, so I can't really say what information is going to be required. I'm assuming most of the information will be	2 3 4	behind Tab 8. Did you rely on this document in reaching your opinions regarding this site? A. I don't remember to what degree I
2 3 4 5	need to start that modeling? A. I'm not a modeler, so I can't really say what information is going to be required. I'm assuming most of the information will be in our database, and when we select a modeler for	2 3 4 5	behind Tab 8. Did you rely on this document in reaching your opinions regarding this site? A. I don't remember to what degree I referred to this document. My copy is highlighted
2 3 4	need to start that modeling? A. I'm not a modeler, so I can't really say what information is going to be required. I'm assuming most of the information will be in our database, and when we select a modeler for doing that, I suppose they will tell us what they	2 3 4	behind Tab 8. Did you rely on this document in reaching your opinions regarding this site? A. I don't remember to what degree I referred to this document. My copy is highlighted for leak discovery, leak reported, and leak began,
2 3 4 5 6	need to start that modeling? A. I'm not a modeler, so I can't really say what information is going to be required. I'm assuming most of the information will be in our database, and when we select a modeler for doing that, I suppose they will tell us what they need.	2 3 4 5 6	behind Tab 8. Did you rely on this document in reaching your opinions regarding this site? A. I don't remember to what degree I referred to this document. My copy is highlighted for leak discovery, leak reported, and leak began, and I'm
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A. I'm not a modeler, so I can't really say what information is going to be required. I'm assuming most of the information will be in our database, and when we select a modeler for doing that, I suppose they will tell us what they need. Q. Do you have a timetable for when that may happen? A. I don't. Q. Have you ever looked at the capture zones for any of the nearby wells, production wells? A. No. That involves mathematical modeling, such as I was describing. Q. Has OCWD done that? A. No, not to my knowledge. Well, I take that back. There has been some rudimentary analysis for capture zones, but it it's in regards to a program called drinking let's see source water assessment and protection. Drinking drinking	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	behind Tab 8. Did you rely on this document in reaching your opinions regarding this site? A. I don't remember to what degree I referred to this document. My copy is highlighted for leak discovery, leak reported, and leak began, and I'm MR. AXLINE: I'm going to object to that question. Mr. Bolin is not offering an opinion with respect to this site. He's appearing as the District's 30(b)(6) witness with respect to this site. BY MR. ANDERSON: Q. Did you rely on this document in preparing for your testimony today as OCWD's representative? A. I think I referred to the leak discovery and leak reported dates on this document. Q. And for the record, this document is from the State Water Resources Control Board, correct?
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	A. I'm not a modeler, so I can't really say what information is going to be required. I'm assuming most of the information will be in our database, and when we select a modeler for doing that, I suppose they will tell us what they need. Q. Do you have a timetable for when that may happen? A. I don't. Q. Have you ever looked at the capture zones for any of the nearby wells, production wells? A. No. That involves mathematical modeling, such as I was describing. Q. Has OCWD done that? A. No, not to my knowledge. Well, I take that back. There has been some rudimentary analysis for capture zones, but it it's in regards to a program called drinking let's see source water assessment and protection. Drinking drinking water assessment and protection, where there is a simple formulas determined for evaluating the risk of	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	behind Tab 8. Did you rely on this document in reaching your opinions regarding this site? A. I don't remember to what degree I referred to this document. My copy is highlighted for leak discovery, leak reported, and leak began, and I'm MR. AXLINE: I'm going to object to that question. Mr. Bolin is not offering an opinion with respect to this site. He's appearing as the District's 30(b)(6) witness with respect to this site. BY MR. ANDERSON: Q. Did you rely on this document in preparing for your testimony today as OCWD's representative? A. I think I referred to the leak discovery and leak reported dates on this document. Q. And for the record, this document is from the State Water Resources Control Board, correct? A. Geotracker database, yes. Q. And I don't see a date on this
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48 (Pages 1331 to 1334)

Page 1335 Page 1337 references a March 21st, 2008 letter? 1 But, in this case, in the proximity to this 2 A. Maybe I wasn't clear. I'm referring 2 site, they are referring to water in the uppermost to that section under "regulatory activities." zone that is not a direct source of drinking water, 4 Q. I understand. I'm just trying to put 4 but it replenishes drinking water. 5 a date on this --5 MR. ANDERSON: I'm going to object to 6 A. Oh, okay. 6 everything after "yes" as nonresponsive. 7 7 O. Have you told the State Water Q. And I would say it was drafted sometime after March 21st, 2008 because it makes 8 Resources Control Board that you disagree with the 9 reference to another --9 representation in this document? 10 10 À. I understand. I haven't talked to the State Water 11 Yeah. 11 Resources Control Board. 12 On the right-hand column, near the top, it 12 So is that a "no"? O. says, "Potential media affected." Do you see that? That's a "no." 13 13 Α. 14 Yes. 14 O. Thanks. 15 Ö. What does it say underneath that? 15 Does OCWD think that the plume related to 16 A. "Other groundwater. Uses other than 16 Chevron 9-5401 has commingled with plumes from any drinking water." 17 other stations? 18 So at least in this document, the 1.8 A. We don't know what degree the plumes 19 State Water Resources Control Board is representing 19 might have commingled thus far. We know that there's 20 that groundwater, other than drinking water, would be 20 been detections in drinking water wells. We know affected by this release? that there's been a release from the site. The 21 21 22 That's a little -- that's confusing. 22 contamination has migrated off site. This is a 23 To my knowledge, there isn't any water in the basin 23 suspect source for the detections in those wells, so we don't know what degree commingling has occurred. that isn't attached or associated with the drinking 24 25 water, including water in the shallow-most horizon. 25 Has OCWD spent any money remediating Page 1336 Page 1338 That's where leaks first occur, is in the MTBE contamination at this site to date? 2 shallow-most horizon. No. 3 Eventually, that water replenishes drinking Does OCWD plan to remediate any water, and that's very true in the pressure zone contamination at this site? 4 A. Probably. But right now there are no where this site is located. The first releases are 5 6 going to get into that shallow groundwater; the specific steps that have been identified to remediate 7 shallow groundwater will flow and eventually there is groundwater at this site. 8 Q. Has OCWD anticipated how much money 8 a downward gradient, and so it is drinking water. it plans to spend remediating contamination at this 9 MR. ANDERSON: And I'm going to object to 10 10 that as nonresponsive. site? Can you read my question back, please? 11 11 (Record read as follows: OUESTION: So at 12 O. Is there a timetable for when it may 12 least in this document, the State Water Resources 13 have an estimate for its potential remediation 13 Control Board is representing that groundwater, other expenditures? 15 than drinking water, would be affected by this 15 A. No. 16 16 release?) Q. Do you still have Exhibit 48, which BY MR. ANDERSON: 17 17 is the exhibit --18 Can you answer the question, please. 18 A. I do. 19 Yes. They're distinguishing that 19 -- Whitney was speaking with you Q. 20 there is groundwater in the basin that is not 20 about? considered to be drinking water, but it -- it's 21 Α. Yes. 22 all connected. This is my point. 22 O. What actions on Exhibit 48 has OCWD 23 taken at Chevron 9-5401 to date? 23. There isn't water in the basin that isn't Well, we're in the process of 24 drinking water, unless you're looking at seawater. 24 Seawater would not be the drinking water. 25 evaluating the site. This is, by the way, the same

49 (Pages 1335 to 1338)

	Page 1339		Page 1341
1	question I have received on other sites. The answer	1	prepare a scope of work to begin our Phase II
2	is going to be substantially the same.	2	investigation, which involves monitoring wells.
3	We are in the process of evaluating this	3	Q. When you said, "finish the
4	site, which is considered to be part of the	4	evaluations for the focus sites," is that referring
5	investigation phase and actually lends itself to a	5	to stations in plaintiff's focus plumes or referring
6	remediation phase. Remediation always begins with an	6	to the Phase I 39 sites in Komex's initial
7	investigation. So there is some overlap between	7	evaluation?
8	remedial investigation and site investigation.	8	A. Well, they are going to look at some
9	We've we retained an expert to help us	9	of the work that Komex has already done in their
10	with the evaluation. They've completed well,	10	original list of sites, but the sites we're looking
11	Komex didn't complete a site on this one, but we're	11	at now, the present focus sites with these focus
12	in the process of obtaining another consultant to	12	plumes, there are some sites, including Chevron, this
13	help us with evaluating this site.	13	Chevron site, that Komex had not reported on and
14	Q. Is that it?	14	Hargis will be doing that.
15	A. Yes. That's substantially the same	15	Q. Is there a timetable for when this
16	as the other sites.	16	work should be completed?
17	Q. Which consultants is OCWD evaluating	17	A. There was. It's changed dramatically
18	to use for the process that you just described?	18	given our current circumstances. We were hoping to
19	A. Well, I called the office after I	19	have reports available to assist with depositions.
20	my earlier deposition this morning, and there is a	20	But that's changed.
21	contract that has been accepted by Hargis &	21	Q. Is there a new timetable between the
2.2	Associates to provide threat assessment services to	22	parties?
23	Orange County Water District. It's not an executed	23	A. No. We haven't we haven't gone
24	contract, but it is waiting for signatures at the	24	that far.
25		25	The scope of work was based on a different
	Page 1340		Page 1342
1		1	timetable. Now the scope is going to change a little
1 2	Q. And I'm an awful speller. Is it H-A-R-G-I-S?	1 2	bit. We don't know to what degree.
3		3	
4	A. Yes, it is. Q. Ah, well.	4	Q. Is there a particular environmental consultant who's heading up the project?
5	A. It's Hargis Plus. They don't use the	5	A. Point of contact is a good friend
6	ampersand or "and." It's Hargis Plus Associates.	6	whose name just escapes me. In San Diego. He's the
7		7	regional operations manager.
,	Q. Do you know if there was a dollar amount of that contract?	8	Q. Well, if you think about it later,
9		0	O. WCII, II YOU HIIIK ADOUL IL IALCI,
	Δ Vec	9	
1 0	A. Yes. O. What was that dollar amount?	9 10	just let me know, or let Pete know.
10	Q. What was that dollar amount?	10	just let me know, or let Pete know. A. That's embarrassing.
11	Q. What was that dollar amount?A. I can't recall the exact dollar	10 11	just let me know, or let Pete know. A. That's embarrassing. Q. How long have they been engaged and
11 12	Q. What was that dollar amount?A. I can't recall the exact dollar amount. It's something in the neighborhood of	10 11 12	just let me know, or let Pete know. A. That's embarrassing. Q. How long have they been engaged and working on this? Do you know?
11 12 13	Q. What was that dollar amount? A. I can't recall the exact dollar amount. It's something in the neighborhood of \$450,000.	10 11 12 13	just let me know, or let Pete know. A. That's embarrassing. Q. How long have they been engaged and working on this? Do you know? A. Chris Ross.
11 12 13 14	Q. What was that dollar amount? A. I can't recall the exact dollar amount. It's something in the neighborhood of \$450,000. Q. What exactly well, do you know	10 11 12 13 14	just let me know, or let Pete know. A. That's embarrassing. Q. How long have they been engaged and working on this? Do you know? A. Chris Ross. Q. Chris Ross, okay.
11 12 13 14 15	Q. What was that dollar amount? A. I can't recall the exact dollar amount. It's something in the neighborhood of \$450,000. Q. What exactly well, do you know generally what the scope of work is that Hargis Plus	10 11 12 13 14 15	just let me know, or let Pete know. A. That's embarrassing. Q. How long have they been engaged and working on this? Do you know? A. Chris Ross. Q. Chris Ross, okay. A. Well, they haven't been.
11 12 13 14 15 16	Q. What was that dollar amount? A. I can't recall the exact dollar amount. It's something in the neighborhood of \$450,000. Q. What exactly well, do you know generally what the scope of work is that Hargis Plus Associates is going to be performing for OCWD?	10 11 12 13 14 15 16	just let me know, or let Pete know. A. That's embarrassing. Q. How long have they been engaged and working on this? Do you know? A. Chris Ross. Q. Chris Ross, okay. A. Well, they haven't been. Q. Right. So I understand that they are
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